

## Safety Data Sheet

acc. to OSHA HCS

Printing date 02/07/2024

Revision date 02/07/2024

Page 1/8

## **1** Identification · Product identifier · Trade name: Sulfanilic Acid · Synonym 4-Aminobenzenesulfonic Acid 4-amino-benzenesulfonic acid p-Aminobenzenesulfonic Acid NSC 7170 4-Sulfoaniline p-Sulfoaniline · Article number: 33451 · CAS Number: 121-57-3 · EC number: 204-482-5 · Index number: 612-014-00-X · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department · Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture GHS07 H315 Causes skin irritation. Skin Irritation 2 Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

(Contd. on page 2)

Printing date 02/07/2024

Revision date 02/07/2024

## Trade name: Sulfanilic Acid

	(Contd. from page 1
Label element	-
<ul> <li>GHS label eler</li> <li>The substance</li> <li>Hazard pictog</li> </ul>	is classified and labeled according to the Globally Harmonized System (GHS).
▲ · · · ·	
GHS07	
GHOU	
· Signal word W	
Hazard statem	
H315 Causes s	
	serious eye irritation.
	se an allergic skin reaction.
<ul> <li>Precautionary</li> </ul>	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, i
D262+D264	present and easy to do. Continue rinsing.
P362+P364 P333+P313	Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
P333+P313 P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 001	regulations.
- Classification	
NFPA ratings	
н	ealth = 2
	re = 0
	eactivity = 0
	-
HMIS-ratings (	scale 0 - 4)
HEALTH 2 H	lealth = 2
FIRE 0 F	Fire = 0
REACTIVITY 0 F	Reactivity = 0
· Other hazards	
	T and vPvB assessment
• <b>PBT:</b> Not appli	
• <b>vPvB:</b> Not appli	
Compositio	n/information on ingredients
	racterization: Substances
CAS No. Desc	ription

121-57-3 Sulfanilic Acid

(Contd. on page 3)

<sup>-</sup> US -

Printing date 02/07/2024

#### Revision date 02/07/2024

(Contd. from page 2)

#### Trade name: Sulfanilic Acid

Identification number(s)

- · EC number: 204-482-5
- · Index number: 612-014-00-X

### 4 First-aid measures

· Description of first aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- · PAC-1: 37 mg/m<sup>3</sup>
- · PAC-2: 410 mg/m<sup>3</sup>
- · PAC-3: 2,400 mg/m<sup>3</sup>

## 7 Handling and storage

- · Handling:
- Precautions for safe handling
- No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

(Contd. on page 4)

US

Printing date 02/07/2024

Revision date 02/07/2024

#### Trade name: Sulfanilic Acid

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

• Storage: Store in accordance with information listed on the product insert.

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye protection:



Tightly sealed goggles

(Contd. from page 3)

(Contd. on page 5)

Printing date 02/07/2024

Revision date 02/07/2024

#### Trade name: Sulfanilic Acid

(Contd. from page 4)

9 Physical and chemical proper	ties			
· Information on basic physical and chemical properties				
· General Information				
· Appearance: Form:	Solid			
Color:	Not determined.			
· Odor:	Characteristic			
Structural Formula	C6H7NO3S			
<ul> <li>Molecular Weight</li> <li>Odor threshold:</li> </ul>	173.2 g/mol Not determined.			
· pH-value:	Not applicable.			
· Change in condition				
Melting point/Melting range: Boiling point/Boiling range:	280 °C (536 °F) Undetermined.			
· Flash point:	Not applicable.			
•	Product is not flammable.			
Flammability (solid, gaseous):				
· Decomposition temperature:	Not determined.			
· Ignition temperature:	Not determined.			
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
· Vapor pressure:	Not applicable.			
<sup>.</sup> Density at 20 °C (68 °F):	1.485 g/cm³ (12.39233 lbs/gal)			
Relative density	Not determined.			
<ul> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not applicable. Not applicable.			
•				
<ul> <li>Solubility in / Miscibility with Water at 20 °C (68 °F):</li> </ul>	10 g/l			
· Partition coefficient (n-octanol/water				
· Viscosity:	,			
Dynamic:	Not applicable.			
Kinematic:	Not applicable.			
SOLUBILITY	DMF: 1 mg/ml; DMSO: 1 mg/ml; DMSO:PBS (pH 7.2) (1:2): 0.3 mg/ml			
• Other information	No further relevant information available.			

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• Possibility of hazardous reactions No dangerous reactions known.

(Contd. on page 6)

US

Printing date 02/07/2024

Revision date 02/07/2024

(Contd. from page 5)

Trade name: Sulfanilic Acid

- · Conditions to avoid No further relevant information available.
- · **Incompatible materials:** strong oxidizing agents
- · Hazardous decomposition products: carbon oxides, nitrogen oxides, sulfur oxides

## **11 Toxicological information**

· RTECS Number WP3895500

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

Oral LD50 12,300 mg/kg (rat)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

## **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

US

Printing date 02/07/2024

Revision date 02/07/2024

(Contd. from page 6)

Trade name: Sulfanilic Acid

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

Transport information		
· UN-Number · DOT, IMDG, IATA	not regulated	
<ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	<b>k II of</b> Not applicable.	
· UN "Model Regulation":	not regulated	

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of

(Contd. on page 8)

Printing date 02/07/2024

Revision date 02/07/2024

## Trade name: Sulfanilic Acid

(Contd. from page 7) these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.
<ul> <li>Department issuing SDS: Environment protection department.</li> <li>Contact: -</li> <li>Date of preparation / last revision 02/07/2024</li> <li>Abbreviations and acronyms:         <ul> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Air Transport Association</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>HMIS: Hazardous Materials Identification System (USA)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>Persistent, Bioaccumulative and Toxic</li> <li>vPVB: very Persistent and very Bioaccumulative</li> <li>NIOSH: National Institute for Occupational Safety</li> <li>OSHA: Occupational Safety &amp; Health</li> <li>TLV: Threshold Limit Value</li> <li>PEL: Permissible Exposure Limit</li> <li>Skin Intrivation 2: Skin corrosion/Irritation – Category 2</li> <li>Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A</li> <li>Sensitization - Skin 1: Skin sensitisation – Category 1</li> </ul> </li> </ul>